

ABSTRACT

AUTOMATION, COMPUTER MODELING, ACTIVATION, CONDENSED CARGO, CHEMCAD, MATERIAL BALANCE, COMPUTER CALCULATION, C # / WPF, CONTROL AND REGULATION.

Explanatory note 87 p., 26 figures, 19 tables, 3 appendixes, 25 sources. The project of computer simulation of the process of calculating the process of activation of condensed coal is executed.

The project substantiates the norms of technological regimes, provides a technological diagram of the process of activation of condensed coal. The characteristics of the technological scheme of the process of activation of condensed coal are considered.

The computer calculation of the material balance of the process in the program - the simulator ChemCAD 7. A computational module for calculating optimal settings of the temperature regulator in the fluidized bed furnace with the application development environment of the C # / WPF software module was developed.

An effective scheme of automation of the process of condensed coal production is offered. The necessary control and regulation devices have been selected. The economic-organizational calculations of the main technical and economic indicators of this process are carried out. The technique of safety of the production process is considered, technical safety decisions are also given, in order to reduce the risks in the enterprise for the production of condensed coal.

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